

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 (currently amended). An implantable medical device comprising:

- a) a microprocessor-based controller;
- b) a memory controlled by the microprocessor-based controller;
- c) means for sensing [at least one of] variations in transthoracic impedance due to respiratory related activity [and heart sounds]; and
- d) means responsive to detection of a predetermined [event] respiratory pattern for storing data pertaining to the sensed [one of] respiratory related activity [and heart sounds] in the memory.

2 (original). The implantable medical device of claim 1 and further including a telemetry link in the device for transferring out the stored data to an external monitor.

Claims 3-5 (canceled).

6 (currently amended). The implantable medical device of claim [5] 1 wherein the predetermined respiratory pattern is Cheyne-Stokes respiration.

7 (currently amended). The implantable medical device of claim [5] 1 wherein the predetermined respiratory pattern is apnea.

Claims 8-13 (canceled).

14 (currently amended). A method of storing [at least one of] polysomnograph data [and phonocardiogram data] in a memory of an implantable medical device comprising the steps of:

- a) implanting in a patient a medical device having a controller with a memory for storing data and at least one sensor for detecting variations in transthoracic impedance [a physiologic parameter] relating to [one of] respiratory activity [and heart sounds] and producing an electrical signal proportional to [the sensed physiologic parameter] said variations;
- b) detecting a predetermined event; and
- c) storing [a selected one of] polysomnograph data derived from the detected respiratory activity [and phonocardiogram data derived from heart sounds] in the memory upon detection of said predetermined event.

15 (original). The method of claim 12 wherein the predetermined event triggering storage of polysomnograph data is detection of a predetermined respiratory pattern.

Claims 16 and 17 (canceled).